Signal Level Meters

Trilithic Model Three™

The Model Three™ Signal Level Meter is ideal for CATV installations - featuring a wide range of tests for analog and digital channel measurements. This rugged instrument can be customized, streamlining tests and making your installations and troubleshooting more efficient.

With the press of a single key, the meter performs a complete test of all channels in the selected user channel plan to specified limits. It can also be set to automatically perform Level, Spectrum, Tilt (Favorite), Hum, QAM, and Limit tests at programmed intervals, unattended.

- 5 MHz to 1 GHz Standard Frequency Coverage
- Full Scan, Single Channel, and Spectrum Modes
- Data Logging
- Digital Signal Measurements: Power, MER, Pre- and Post-FEC, BER (Including Deep Interleave)

P/N	Description
2011346110	Signal Level Meter With Constellation. Range: 5 MHz to 1 GHz; Accuracy: ±50 ppm (20°C ± 5°C)

Trilithic TR-3 Signal Level Meter

This simple to use meter provides fast and efficient measurements including signal level measurement, tilt measurement to balance your system, and it features six favorite channels and an extended battery life.

The TR-3 is ready to use with the standard NCTA channel plan and includes a protective rubber bumper, carrying strap, charger, user's manual and a spare F-type connector.

- 46 MHz to 1 GHz Frequency Coverage
- 6 Favorite Channels
- Automatic Tilt Calculation
- Analog and Digital Power Readings

P/N	Description
2011348000	Signal Level Meter. Range: 46 MHz to 1 GHz; Accuracy: ±2.0 dB @ 20°C ± 5° (@ 68°F ± 9°)

Trilithic TPNA-1000 Triple Play Network Analyzer

The hand-held TPNA-1000™ Triple Play Network Analyzer offers a full complement of analog and digital test functions, an imbedded DOCSIS 2.0 cable modem and highly sought after auto test functionality. The TPNA-1000 Triple Play Network Analyzer provides a full complement of standard testing tools, previously only available in high-end multi-function meters.

With this full complement of testing capabilities and automated quality assurance tests, a simple user interface, large color screen and a relatively low price point, the new TPNA-1000 is the most cost-effective multi-function analyzer available today and is the ideal solution for all fulfillment techs and contractors.

- Increase technician productivity and efficiency
- Comprehensive installation and service test capability
- Cost-effective solution
- Automated tests improve consistency and accuracy

P/N	Description
2011447000	Triple Play Network Analyzer. Range: 5 MHz to 1 GHz; Accuracy: ±10 ppm x 10^{-6}

Sadelco DisplayMax® 5000

The DisplayMax 5000 provides a complete test solution for today's installation workforce. The 5000 series measures analog and digital channel power as well as quality measurements such as MER, BER and C/N. Return levels are measured using a built-in DOCSIS modem, insuring sufficient headroom for reliable modem operation. Finally, shielding is verified by measuring Leakage and Ingress. All these tests from a single, low cost and easy to use field instrument.

- Modem Return Level
- MER, BER and C/N
- Leakage and Ingress Detection
- Analog, QAM, QPSK and 8-VSB
- 1000 MHz Tuning Range Optional

P/N	Description
DisplayMax 5000	Frequency Range: 5 to 872 MHz; Typical Accuracy: ± 0.5 dB

Multiple configurations available. Please check with your TVC representative or www.tvcinc.com for details.

Signal Level Meters

Sadelco DisplayMax® 800 & 800CLI

The DisplayMax 800CLI is powerful enough to maintain the headend, yet simple enough for routine installation checks. With a wide range of measurement options, a technician can quickly check an individual channel, favorite channels, all channels, tilt, leakage, ingress, C/N or HUM.

- Full Spectrum Display
- Leakage (800CLI) and Ingress Detection
- Data Recording
- Auto-Calibration

P/N	Description
DisplayMax 800	**Without Leakage Detection,** Tuning Range: 5 to 872 MHz; Typical Accuracy: ± 0.5 dB
DisplayMax 800CLI	**With Leakage Detection,** Tuning Range: 5 to 872 MHz; Typical Accuracy: ± 0.5 dB

Sencore SLM 1475 Signal Level Meter

The SLM 1475 enables today's RF professional to test and analyze a variety of RF signals, including terrestrial (off-air), satellite, and cable signals. The SLM 1475 also provides decoded video and program streams for all in-the-clear channels.

Terrestrial

- Accurately measures analog and digital signal levels
- Full-color, decoded ATSC video for quick visual quality assurance
- Digital quality measurements including MER, Noise Margin, Pre/Post BER and Average Peak Level

Cable

- Full tuning capabilities from 4-1000 MHz for both analog and digital signals including QAM 64 and QAM 256 Annex B
- Provides accurate signal level measurements, plus signal quality measurement for analog and digital signals including C/N, Pre/Post BER, MER, EVM, and Constellation

P/N	Description
SLM 1475	Portable Satellite/Cable/Broadcast Signal Level Meter

Sencore SLM 1476CM Portable Signal Level Meter

The SLM 1476CM provides everything installers and operators are looking for in a signal level meter. Capable of analog and digital measurements, including Pre/Post BER, MER, Spectral Display, DOCSIS 2.0 Network Testing, plus Leakage and Ingress Testing capabilities all at an affordable price. Designed to easily test multiple DOCSIS channels. The SLM 1476 provides a pass/fail test which can be logged.

- Digital measurement capabilities including: Average power, Pre/Post BER, MER, and Constellation for QAM, also provides 8-VSB/ATSC testing capabilities
- All Channel/Frequency Tuning: From 4-1000 MHz (UHF/ VHF/CABLE) allowing return path signal testing as well as testing high frequency channels with ease
- Analog measurement capabilities including Signal Level, A/V ratio, and C/N

P/N	Description
SLM 1476CM	Handheld QAM/8-VSB/DOCSIS 2.0 Signal Level Meter

Sencore SLM 1477 Portable Signal Level Meter

The SLM 1477 provides everything installers and operators are looking for in a signal level meter. Capable of analog and digital measurements, including Pre/Post BER, MER, spectral display, DOCSIS 3.0 network testing, leakage and ingress testing capabilities all at an affordable price. The SLM 1477 provides a pass/fail test which can be logged and directly transferred to an ftp server.

- Digital measurement capabilities including: Average power, Pre/Post BER, MER and Constellation for QAM, also provides 8-VSB/ATSC testing capabilities
- DOCSIS 3.0 Testing - verify channel bonding
- Threshold test-user definable thresholds for pass/fail logging
- Optical Power Meter (optional)
- All Channel/Frequency Tuning: From 4-1000 MHz (UHF/ VHF/CABLE) allowing return path signal testing as well as testing high frequency channels with ease

P/N	Description
SLM 1477	Handheld QAM/8-VSB/DOCSIS 3.0 Signal Level Meter

Return Path Test

Sadelco

Sadelco RT100 Return Path Tester

RT100 is a portable three-frequency signal generator that can be used for a wide variety of testing and troubleshooting applications. Used in conjunction with a Signal Level Meter, the gain or loss of any system component can be quickly measured. Multiple carriers allow testing in both the upstream and downstream paths. RT100 can be used to test and balance return amplifiers or to test and troubleshoot home wiring. In cases of high modem output levels (or inability to lock) the modem can be replaced by the RT100. Next, signal level measurements are made at each connection point heading back upstream until the source of low gain is identified. Once the problem is fixed, the modem is reconnected and tested to verify normal transmit levels.

- Troubleshoot High Modem Levels
- Verify All System Components
- Qualify Home Wiring

P/N	Description
RT100	Return Path Tester. Standard Frequencies: 8 MHz (Return / Upstream); 34 MHz (Return / Upstream); 60 MHz (Forward / Downstream)

Test Probe

XFTP TRILITHIC

Trilithic I-Stop Reverse Test Probe

The I-Stop Reverse Test Probe is a test accessory that you can use with most signal level meters to take bi-directional signal measurements with no risk of power damage.

Just screw the probe into a distribution tap's unused KS port and a spring-loaded "stinger" connects a 20 dB resistive test point circuit to the hardline. The bi-directional connection lets a meter or analyzer measure forward and reverse signals, as well as reverse ingress. A built-in AC/DC blocking circuit protects the meter or analyzer from damage from online power up to 90 volts.

- Taps unused KS ports for bi-directional measurements
- Protects instruments from damage caused by line power
- Tracks reverse ingress to the nearest tap

P/N	Description
2010838001	Reverse Test Probe

Multi-Function Test Set

GREENLEE. COMMUNICATIONS

Greenlee Sidekick® Prem Basic Model 2

The Sidekick® Prem is a simplified test solution designed to achieve results for the Telco technicians' Outside Plant and Customer Premise testing requirements. The Sidekick® Prem has standard Sidekick® features for testing Outside Plant twisted-pair cables and ADSL2/2+ modem for gathering sync data.

The Sidekick® Prem has a built-in Test Telephone and a tone generator that can work with most Inductive amplifiers for pair identification. It has the ability to test premise coax and twisted-pair cabling. The graphical user interface and touch screen make operation simple and intuitive. The test set can be used as a go/no-go meter by using the built in Auto Scripts or as a conventional Sidekick® tester.

- 3 test meters in 1. Test twisted-pair cables and premise coax, gather sync data and conduct pair identification for increased workforce productivity
- Intuitive touch screen navigation requires minimal training for quick deployment
- Stress Test finds faults not detected by other tests, reducing repeats and improving the customer experience
- Long battery life reduces downtime
- Field upgradable

P/N	Description
Sidekick® PREM Basic Model 2	Multifunctional OSP and CPE Testing Meter

Signal Leakage

Trilithic CT-2 / CT-3 Channel Taggers

When several cable systems operate in the same area, it is often difficult to determine which system is the source of a detected leak. The CT-2/CT-3™ solves this problem by tagging the system video carrier with low frequency modulation. Used as a system with Trilithic's leakage receivers, (including the Super Plus™, Seeker and Seeker Lite²™) the CT-2/CT-3 eliminates all "false alarm" triggers.

- The Solution to False Alarms
- Isolates Leaks in Over-Built Systems
- Compatible with Super Plus, Seeker and Seeker Lite²

P/N	Description
2010670001	CT-2 Headend Channel Tagger. Modulates on to one of the standard video carriers in the systems midband channel line-up
2010762000	CT-3 Headend Channel Tagger. Generates a tagged carrier at a customer-specified frequency. Used when a suitable video channel is not available

Trilithic Searcher Plus GT Leakage Detector

Searcher Plus GT is the first Leakage Measurement Receiver built specifically for systems employing digital set top terminals that cannot tolerate "tagged" leakage carriers. The GT provides enhanced "false alarm" resistance and many of the features of the Super Plus without the use of a tagged leakage test signal.

- Testing installations for excessive leakage
- Walking down the source of leakage
- Near field preventative maintenance measurements

P/N	Description
2011233121	Searcher Plus GT, Frequency 121.2625
2011233127	Searcher Plus GT, Frequency 127.2625
2011233133	Searcher Plus GT, Frequency 133.2625
2011233139	Searcher Plus GT, Frequency 139.2500

Trilithic Super Plus Leakage Detector

The Super Plus leakage receiver is designed for the new era of digital program services and overbuilt systems. Its high immunity to "false alarms" from other signal sources (even leaks from other systems) makes the Super Plus the perfect instrument for identifying leaks in noisy or overbuilt areas. Because the Super Plus only responds to carriers that have been "tagged" by a CT-2 (Channel Tag) or CT-3 (Tagged Carrier Inserter), it rejects the effects of ignition noise and power line interference.

- Testing installations for excessive leakage
- Walking down the source of leakage
- Near field preventative maintenance measurements

P/N	Description
2011235121	Super Plus, Frequency 121.2625
2011235127	Super Plus, Frequency 127.2625
2011235133	Super Plus, Frequency 133.2625
2011235139	Super Plus, Frequency 139.2500

Trilithic Seeker Lite² Leakage Detector

Seeker Lite² Cable TV leakage detector is specifically designed for efficient subscriber installations, displaying numerical measurements of leaks on up to three selectable channels and emitting a tone proportional to leak strength.

- Numerical Measurement Display
- Directional for Leak Location
- Stable, repeatable readings and built in directional antenna simplify leak location
- "Cruise Mode" offers continuous surveillance for long periods at reduced battery current
- Tough, simple to use and very cost-effective, the Seeker Lite² is the ideal leakage measurement instrument for insuring leakage—and ingress—free installations, every time

P/N	Description
2011002103	Seeker Lite², Default Frequencies: 121.2625 MHz; 127.2625 MHz; 133.2625 MHz; 139.2500 MHz; 146.2625 MHz

TDRs

Greenlee TV90 Cable Scout® TDR

The TV90 is designed for ease-of-use. You'll spend less time operating the TDR and more time repairing faults. Simply select the cable type to be tested and the TV90 does the rest. Impedance, VoP, gain, pulse width and vertical position are automatically selected and adjusted as you scan the cable. Just move the cursor to the fault to pinpoint its location.

- Find location of damage in drops
- Find impedance mismatches
- Locate bad passive devices

P/N	Description
TV90	CableScout TDR. Test Signal Output 1/2 sine.; Amplitude (into 75 Ohm) 6 ns pulse: 5V -12 ns pulse: 6V

Greenlee TV220 CableScout® TDR

CableScout TV220 is a high performance Time Domain Reflectometer for coaxial applications. The TV220 is designed to quickly locate faults that effect digital services in the Cable TV Network. High Frequency acquisition system exposes faults invisible to other TDR's. High signal-to-noise ratio (SNR) allows for precision multiple fault location accuracy.

- TestWizard™ Testing – One-Button Testing
- Automatic Return Loss Measurements
- Automatic Multiple Event Marking
- High-Resolution, Short Pulse Width (1 ns)

P/N	Description
TV220	CableScout TDR. Test Signal Output 1/2 sine; Amplitude (into 75 Ohm) 4V into 75 Ohm

T³ Innovation Snap Shot™ Fault Finder/Cable Length Measurement TDR

With the complexity of today's electrical, data, voice and video signal carrying systems, you need a tool that is fast, accurate and easy to use to see down the wire and show the exact conditions that exist. Snap Shot™ is that tool. Made in America with American technology, Snap Shot™ is the new 21st century tool for testing every type of cable in any industry. Advanced Spread Spectrum TDR technology works in all wire environments and is immune to voltage, current, or data stream disruptions.

- Accuracy of 1% or better
- Works on energized cables
- Ability to measure length on live telephone lines

P/N	Description
SS200	Snap Shot™ Main Unit with CA001, CA002, CA003, AD001 and AD002
CA001	Cable Assembly, Insulated Push on F to RJ45 Plug
CA002	Cable Assembly, Insulated BNC to Alligator Clips
CA003	Cable Assembly, Insulated Push-On F-Conn to Alligator Clips
AD001	F-Connector Coupler, High Performance F81
AD002	Adapter, F-Jack to BNC Jack

Megger TDR500 QualiFyr TDR

The Megger QualiFyr TDR500 cable fault locator breaks new ground as a cost-effective, high specification hand-held Time Domain Reflectometer for locating faults on metallic cables. Designed for the field engineer requiring a low cost solution to field testing, the QualiFyr TDR500 offers all the benefits of MEGGER quality and reliability in an affordable package.

- Simple operation
- Warble tone generator
- Velocity factor from 0.30 to 0.99
- Range to 10,000 ft (3 km)

P/N	Description
TDR500	TDR, 30 m to 3 km Range; Accuracy ±1% of range ± pixel at 0.67VF

TDRs

Megger

Megger CFL510F TDR

The Megger CFL510F is a compact, ergonomically engineered Time Domain Reflectometer designed for field use. As such it is housed in tough, ABS flame-retardant housings and protected from the ingress of dust and moisture to IP54. Additionally, the product comes complete with multi-purpose test and carry cases designed for hands free neck-strap and tool-belt use.

- The Megger CFL510F features all the benefits of a simple low cost hand held TDR
- Ease of use is a key feature and with a simple one key/one function approach, the CFL510F reduces keying errors and consequently results in shorter test times
- Automatic Event Location further simplifies operation producing a reduction in training time and product familiarization

P/N	Description
CFL510F	Hand-held Time Domain Reflectometer. Includes Test and carry pouch and bed of nails test lead set. Optional Accessories available: Miniature Clip Test Lead Set

Megger CFL535F TDR

The CFL535F can be used on any cable consisting of at least two insulated metallic elements, one of which may be the sheath or shield of the cable. Dual inputs and large graphic display allow a wide range of comparative tests to be performed between cable pairs or stored traces. The instrument has 15 trace memories, which allows previous test results to be displayed. The included download software allows transfer of the waveform data to a computer for analysis and storage for future reference.

- Dual input and output ports
- 15 internal memory positions
- RS-232 interface to a PC or printer (included software)
- Help menu
- 5 user selectable pulse widths per range
- Trace averaging

P/N	Description
CFL535F	Monochrome Standard TDR
CFL535FM	Monochrome Rechargeable TDR

Included Accessories: Test and carry pouch, Serial data lead, 2 x miniature clip test lead set, Carry strap for pouch, TraceMaster software and User Guide.

Megger TDR900 Hand-held Time Domain Reflectometer/Cable Length Meter

The Megger TDR900 is an advanced instrument capable of measuring cable lengths and finding distance to an open or a short using Time Domain Reflectometry. It offers exceptional features and a range capability normally associated with far more expensive instruments. The measurement range spans from 15 feet (5 m) to 10,000 feet (3 km) with a minimum resolution of 20 inches (50 cm).

The TDR900 can be used for any cable consisting of at least two insulated metallic elements, one of which may be the sheath or shield of the cable. The Meter has automatic internal matching networks to allow testing of 25Ω, 50Ω, 75Ω, 100Ω, 125Ω, or 150Ω cables. (These correspond to Power, Telephony, CATV, and LAN cables.)

- Full autoranging for measuring the length of Power, Telephony, CATV and LAN cables, provides distance to an open or short
- Extra large, high resolution backlit LCD
- Automatic output impedance control of 25, 50, 75, 100, 125 or 150 ohms
- User-friendly menu on screen operation
- Cable length calibration function
- Internal library of 39 standard cable types

P/N	Description
TDR900	Hand-held Time Domain Reflectometer/Cable Length Meter. Includes alligator clip adapter, user manual and soft carrying case

TDRs

AEA Technologies 20/20 TDRs

The **6020-R5031** Metallic Step TDR for coaxial cables with F connector only. Has a cable User List preloaded with 30+ common 75Ω hard line and drop coax and 100Ω twisted pair Cat 2 – 6 cables. The list can be edited and appended by the user up to 56 cables. Displays both range and impedance of the cable and has two cursors for marking events. Included are rechargeable NiMH batteries with about 7.5 hrs of continuous operation on a single charge.

The **6020-R5041** 20/20F Network TDR-CATV is a Metallic Step TDR for coaxial or twisted pair cables. The TDR has a cable User List preloaded with 30+ common 75Ω hard line and drop coax and 100Ω twisted pair Cat 2– 6 cables. The list can be edited and appended by the user up to 56 cables. Network model has both F and RJ-45 connectors. Backlit LCD displays both range and impedance of the cable and has two cursors for marking events. Included are rechargeable NiMH batteries with about 7.5 hrs continuous operation on a single charge.

P/N	Description
6020-R5031	20/20F TDR. Includes AC Charger and DC Vehicle Charger; F-to-Alligator Clip Test Lead (TDR usable on a single 100Ω twisted pair), Belt Case with shoulder strap, strand hook and adapter pockets, Operator Manual and Quick Start Guide, Serial Cable and CD with TDR PC Vision software™, literature and training PPTs
6020-R5041	20/20F Network TDR-CATV. Includes AC Wall Adapter and DC Vehicle Adapter for charging, F-to-Alligator Clips and RJ45-to-Dual Telco Clips Test Leads, Belt Case with shoulder strap and strand hook, Operator Manual and Quick Start Guide, Serial Cable and CD with TDR PC Vision™ software, literature and training PPTs

Multiple configurations available. Please check with your TVC representative or www.tvcinc.com for details.

Spectrum/Signal Analyzers

Kathrein ADAM 3000 Analog and Digital Antenna Measurement System

With ADAM 3000 Kathrein presents a measurement instrument of the latest generation in compact mounting form, tabletop unit and also as black box, which leaves nothing to be desired for tests of antenna- and cable-installations, even including professional headends.

Functions

- MER – measurement for all digital modulation types
- BER – measurement pre and post Viterbi
- Spectrum analyzer
- Simultaneous spectrum and picture analysis

P/N	Description
ADAM 3000	Analog and Digital Antenna Measurement System

Kathrein MSK-125 Signal Analyzer

The MSK-125 has been designed as a portable multiple standard selective signal meter for analog TV, Satellite and FM Radio and for the digital standards DVB-C, DVB-S(2) and DVB-T/DVB-H. The unit is equipped with a high-quality, transflective 5.7" TFT VGA resolution color screen and a two-line, 22-digit LC display to show measured values.

The calibrated spectrum function features a sweep rate of approximately two seconds.

- Frequency ranges MHz TV: 47-862, Satellite: 920-2,150, FM: 87-108
- Frequency resolution kHz TV/FM: 50, Satellite: 125
- Transmission standards B/G, I, D/K, M, N

P/N	Description
MSK-125	Signal Analyzer

Kathrein MSK-200 Digital Transport Stream Analyzer

The MSK-200 TV Analyzer is 10 vital pieces of test equipment wrapped up into one compact device. Features include a full spectrum analyzer from 5 MHz to 3.1 GHz, a real-time color constellation analyzer for all DVB standards, memory oscilloscope, MPEG-4 and analog TV monitor, real-time MER/BER analyzer with in-depth measurement capabilities, and simultaneous spectrum and picture transport stream monitoring with its high quality digital/analog receiver. Make transmission and reflected RF measurements with the built-in return loss bridge. The MSK-200 even has a built-in internet browser and a full PC is integrated for user data processing and office tasks.

P/N	Description
MSK-200	75 Ohm socket as measuring connection
MSK-200/50	50 Ohm N-type socket as measuring connection

Video/MPEG Test

Sencore DTU-236 RF Probe and RFXpert

The DTU-236 RF Probe and RFXpert software is a comprehensive solution designed to provide real-time analysis and monitoring of terrestrial signals (8-VSB, QAM A/B/C and NTSC RF channels). The RFXpert software is intended to be loaded by the end-user on a PC or laptop and work in conjunction with the DTU-236 RF Probe. RFXpert provides complete RF analysis and logging, along with transport stream recording.

- True demodulated digital reading for MER, Pre-BER, Post-BER and EVM
- A proof-positive method of signal documentation or drop-point comparisons with programmable, user defined logging and auto-inspection capabilities

P/N	Description
DTU-236	8-VSB, QAM, ASI USB Probe

Sencore DTU-245, ASI/SDI Input and Output USB Probe

- Convenient, compact USB adapter that can be used to capture and generate MPEG2 transport streams (DVB-ASI) and uncompressed serial digital video (SDI)
- USB powered - no power supply required
- Independent operation of input and output:
  - o Full-duplex: maximum combined bit-rate of 160 Mbps
  - o Half-duplex: Full DVB-ASI and SDI bit-rate range

P/N	Description
DTU-245-SDP	USB-2 ASI/SDI Input+Output Adapter with DtGrabber+, DtTV and StreamXpress Software
DTU-245-SXP	DTU-245-SDP with StreamXpert TS Analyzer Software

Sencore MSA 1850 MPEG Service Analyzer

The MSA 1850 MPEG Service Analyzer enables engineers to analyze compressed audio, video, and data services on any terrestrial broadcast, cable head-end, satellite, or telco network. To ensure that operators always have the right physical inputs, the MSA 1850 comes standard with ASI, SMPTE310M, 8-VSB, QAM, and Ethernet connections. It provides detailed transport stream and physical layer analysis for complete system confidence all in a field-ready, ruggedized chassis.

- Centralized analysis of terrestrial broadcast, cable, or telco signals
- Local and remote monitoring with intuitive web interface
- HD and SD MPEG2 and H.264 support along with 4:2:2 MPEG2

P/N	Description
MSA 1850	MPEG Service Analyzer

Sencore TSM 1770 Transport Stream Monitor

The TSM 1770 Transport Stream Monitor enables engineers to monitor compressed audio, video, and data services on any terrestrial broadcast, cable head-end, satellite, or telco network. With full support for ASI, SMPTE310M, 8-VSB, QAM, and Ethernet physical inputs, it provides detailed transport stream and physical layer monitoring for complete system confidence.

- Centralized monitoring of terrestrial broadcast, cable, or telco signals
- Local and remote monitoring with intuitive web interface
- HD and SD MPEG2 and H.264 support along with 4:2:2 MPEG2

P/N	Description
TSM 1770	Transport Stream Monitor

Sencore VB12-RF IP and QAM/8-VSB Monitoring Probe

Sencore has extended its award-winning VideoBRIDGE™ product line with the launch of the VB12-RF, a highly portable RF/IP monitoring appliance for terrestrial and cable applications. With complete ETR101-290 analysis and alarming, the VB12-RF includes an interface for RF, ASI and IP in a compact and ruggedized chassis smaller than most laptop computers.

- 1x SFP GigE port
- 1x 10/100T Mbps Ethernet management port
- 1x ASI Input and 1x ASI output port
- Built-in 100-240VAC PSU

P/N	Description
VB12-RF	Portable Monitoring/Measuring Probe for Terrestrial, Cable and IP Network Troubleshooting

Tone & Probes

Greenlee 402K CATV Tone/Probe Kit

Designed specifically for the CATV industry, the 402K Cable Tone Test Kit sends tone through any passive device along the cable path, such as splitters, traps and directional couplers. No more figuring out non-tagged or mistagged cable drops. The 402K is simple to use and provides fast, accurate results.

- Designed for the CATV market
- Kit allows you to tone through splitters directional couplers and traps

P/N	Description
402K	CATV Tone/Probe Kit

Greenlee 601K-G Tone/Probe Kit

Greenlee is proud to introduce the 601K-G, a fully upgraded version of our entry-level 601K Tone and Probe Tracing kit. The 601K-G Tone and Probe kit offers superior tracing for low voltage applications such as telephone, data, and security alarm wiring. Essential equipment for the internal wiring technician, the 601K-G provides the ability to check voltage on wire pairs as well as generate a tagging tone along the wire which is then picked up by the tracing probe.

Included in the 601K-G kit is the 77M-G one-line Tone Generator with short circuit checker, the 200B-G Tracing Probe with adjustable volume control, an alternate flat/spade plastic probe tip, and a nylon carrying case.

P/N	Description
601K-G	Basic Tracing Kit

Greenlee 701K-G Professional Tone/Probe Tracing Kit

Easy operation and superior tracing for low voltage applications including telephone, data and security alarm wiring. Checks voltage on wire pairs and generates a tagging tone along the wire that is picked up by the tracing probe. Traces single conductors or cables within bundles, either at midpoint or at remote ends. Includes an LED headlight for working in dark spaces, a headset jack, audible circuit beeper and external warble-select on the tone generator. Large speaker for noisy environments. Features an LED headlight, headset jack, short circuit beeper and external warble-select.

P/N	Description
701K-G	Professional Tone and Probe Tracing Kit
701K-G/6A	Professional Tone and Probe Tracing Kit w/ABN Test Clips

Greenlee 801K Premium Tone/Probe Kit

Designed for more accurate wire identification, the 801K virtually eliminates power-related noise from their tone and probe operation. The 801K Premium Tone and Probe Kit offers all the features professionals are looking for. Includes the 77HP/6A High Power Tone Generator with bent nose piercing clips, increased talk battery supply and higher voltage protection and the 200FP Filter Probe for filtering out AC hum. Tone, probe and generator come housed in the rugged woven polyester 700C Dual Carry Case designed for years of dependable use. All components are also available separately.

P/N	Description
801K	Premium Tone and Probe Kit

Greenlee 802K Digital LAN Tracing Kit

The 802K Digital LAN Tracing Kit is a powerful, unique troubleshooting and tracing solution for LANs and other types of VDV wiring. The industry standard 200FP filter probe is designed to eliminate hum from fluorescent lights and AC power wiring that can obscure tracing tones, and the AT8L LAN Toner not only generates multiple tracing tones and provides basic wiring tests, but indicates the presence of 10/100Base-T network service.

P/N	Description
802K	Premium Tone and Probe Kit

Tones & Probes

JDSU Turbo-Tone™ High-Powered Tone Generator

The high-power Turbo-Tone™ Tone Generator enables signal detection 20 miles away and makes hearing tone through walls and enclosures easier with multiple tones and power levels suited for network, signal wire, coax, and telephone cable applications. Four tone amplitude levels include normal and half plus, turbo normal and half, with the half amplitude unbalanced for stronger signal effect on twisted pairs.

- Unbalanced tone mode supports longer distances on UTP cables
- Constant amplitude output ensures no signal decrease as battery discharges

P/N	Description
TG201	Turbo-Tone High-Power Tone Generator with angled bed-of-nails cord set. Includes 19 cm (7.5 in) RJ12 to RJ12 cable for no-fault connection to RJ11 or RJ45 jacks, lanyard, and pouch requires 9-volt battery (not included)
KP105	Turbo-Tone High-Power Tone Generator Kit with alligator clips set and Tone Tracer Probe. Includes Turbo-Tone High-Power Tone Generator with alligator clips set, 19 cm (7.5 in) RJ12 to RJ12 cable for no-fault connection to RJ11 or RJ45 jacks, Tone Tracer Probe, round and paddle-style tips, lanyard, and pouch

JDSU Tone Tracer

The Tone Tracer is an ergonomic, high-sensitivity probe for field service professionals. Used in conjunction with any analog tone generator, the Tone Tracer identifies wire and cable without having to make direct metallic contact with the conductor. The Tone Tracer can be used with a wearable headset or a standard cell phone headset.

- Recessed "on" switch
- Tip replacement without opening case

P/N	Description
TT100	Tone Tracer Probe. Includes round probe tip (TT30), paddle-style probe tip (TT35), and 9-volt battery
KP101	Tone Generator with angled bed-of-nails cord set and Tone Tracer Probe. Includes Tone Tracer Probe, round and paddle-style tips, lanyard, Tone Generator, 60.96 cm (2 ft) RJ11 to angled bed-of-nails clip set, 19 cm (7.5 in) RJ12 to RJ12 cable for no-fault connection to RJ11 or RJ45 jacks, and pouch

Cablematic Premise Toner Drop Cable Continuity Tester

- LED indicates DC shorts, splitters, and other self-grounding devices in cable
- Loud audio tone identifies line carrying signal
- Checks circuit integrity in new and/or installed cable
- Right angle male push-on connector lets you work in tight areas
- Female push-on connector for speed toning
- Tests up to 5,000 ft (1500 m) of cable

P/N	Description
RPT-AAA	Premise Toner Drop Cable Continuity Tester

White Sands Engineering TESTERHT Test Kit – F, BNC, RCA, SMB

The TesterHT kit simplifies the testing and remote identification of coaxial cable assemblies. The pocket toner verifies continuity, shorts or opens, while adapter cables enable the toner to be used with a variety of A/V connectors including BNC, RCA, F and SMB. Because of the fixed pin design used in our connectors they can be tested prior to crimping, saving time and connectors.

P/N	Description
TESTERHT	Test Kit for F, BNC, RCA and SMB Connectors

White Sands Engineering TESTERBC Test Kit – F, BNC, RCA, 1.0/2.3

The TesterBC kit simplifies the testing and remote identification of broadcast coaxial cable assemblies. The pocket toner verifies continuity, shorts or opens, while adapter cables enable the toner to be used with a variety of A/V connectors including BNC, RCA, F and 1.0/2.3. Because of the fixed pin design used in our connectors they can be tested prior to crimping, saving time and connectors.

P/N	Description
TESTERBC	Test Kit for F, BNC, RCA and 1.0/2.3 Connectors

Tone & Probes

Klein Tools TONEcube & PROBEplus Kit

Trace wire paths and identify cables in common wiring systems. Includes nylon carrying case with belt loop and D-ring.

P/N	Description
VDV500-808	Includes TONEcube Tone Generator and PROBEplus Tone Tracing Probe

Klein Tools TraceAll Tone & Probe

Trace wire paths and identify cables in common wiring systems. Heavy-duty RJ11 jack on tone generator for long life and repeated connections. Includes RJ11 adapter to convert tone generator to an alligator-clip configuration. Dual material chassis fits comfortably in your hand.

P/N	Description
VDV526-054	TraceAll Tone & Probe

Fluke Networks IntelliTone™ Pocket Toners

The Pocket Toner® tools are pocket-sized, durable test devices that allow users to quickly and easily test voice, data, video cables for open and short circuits, continuity, AC/DC voltage and dial tone.

The Pocket Toner® comes in three models and several different kit configurations so no matter what your job, you can safely install and test. All models of the Pocket Toner include these features:

- Low voltage protection for both the main body and detachable toner unit
- Dual audible indicators
- Bi-gender adaptable toner section
- Removable push-on connector
- Lightweight, durable anodized aluminum
- Auto shut off
- Replaceable parts
- Uses one AAA battery

P/N	Description
PTNX1	Pocket Toner® NX1. Includes NX1 unit, toner, F-type (M-push, Speed 81™) adapters and 1-AAA battery
PTNX2	Pocket Toner® NX2. Includes NX2 unit, toner, F-type (M-push, Speed 81™) adapters and 1-AAA battery
PTNX2-DLX	Pocket Toner® NX2 Deluxe Kit. Includes NX2 unit, toner, 66 block adapter, RJ-11 adapter, RJ-45 adapter, Dial Tone Detective™, alligator clips with RJ-45 adapter, F-type (F, 9-M-push, M-71, Speed 81™) adapters, RCA (M, F) adapters, BNC (M, F) adapters, 1-AAA battery and deluxe case with belt clip
PTNX2-CABLE	Pocket Toner® NX2 Cable Kit. Includes NX2 unit, toner, alligator clips adapter, F-type (F, M-push, M-71, Speed 81™) adapters, 1-AAA battery and small canvas case
PTNX8	Pocket Toner® NX8. Includes NX8 unit, toner, F-type (M-push, Speed 81™) adapters, 1-AAA battery and deluxe case with belt clip
PTNX8-CABLE	Pocket Toner® NX8 Cable Kit. Includes NX8 unit, toner, 8 ID caps, alligator clips, F-type (F, 9-M-push, M-71, Speed 81™) adapters, 1-AAA battery and deluxe case with belt clip
PTNX8-CT	Pocket Toner® NX8 Cable and Telephone Kit. Includes NX8 unit, toner, 8 ID caps, 66 block adapter, RJ-11 adapter, Dial Tone Detective™, alligator clips with RJ-11 adapter, F-type (F, 9-M-push, M-71, Speed 81™) adapters, 1-AAA battery and deluxe case with belt clip
PTNX8-DLX	Pocket Toner® NX8 Deluxe Kit. Includes NX8 unit, toner, 8 ID caps, 66 block adapter, RJ-11 adapter, RJ-45 adapter, Dial Tone Detective™, alligator clips with RJ-45 adapter, F-type (F, 9-M-push, M-71, Speed 81™) adapters, RCA (M, F) adapters, BNC (M, F) adapters, 1-AAA battery and deluxe case with belt clip
PTNX8-VV-PRO	Pocket Toner® NX8 Voice and Video Pro Kit. Includes NX8 unit, toner, 8 ID caps, 66 block adapter, 8-RJ-11 adapters, RJ-45 adapter, Dial Tone Detective™, alligator clips with RJ-11 adapter and RJ-45 adapter, F-type (F, 9-M-push, M-71, Speed 81™) adapters, RCA (M, F) adapters, BNC (M, F) adapters, 1-AAA battery and deluxe case with belt clip
ADAP-PTNX-KIT	Accessory Kit. Includes alligator clips and RJ-45 adapter, alligator clips and RJ-11 adapter, Dial Tone Detective™, RJ-11 adapter, 66 block adapter, RJ-45 adapter, F-type (F, M-Push, Speed 81, 71™) connectors, RCA (M, F) connectors, BNC (M, F) connectors and 2-wire clip adapters

Tone & Probes

Fluke Networks Pro3000 Analog Tone and Probe

The Pro3000 Tone and Probe Kit is the innovative analog tone and probe. Easily identify individual pairs with its patented SmartTone™ technology (five different tones for exact pair identification). The large powerful speaker on the probe allows you to hear through drywall, wood or other enclosures to find wires quickly and easily. Kit includes pouch.

- Select solid or alternating tone options, indicated with solid or flashing LEDs
- Exclusive SmartTone™ technology can generate five separate analog tones when the pair is shorted at the far end
- Works on de-energized AC wire, telephone/twisted pair wire, all voice and data category rated cable, all coax cable, speaker wire and security wire

P/N	Description
26000900	Pro3000 Analog Tone & Probe Kit
26100900	Pro3000 Analog Probe
26200900	Pro3000 Tone Generator
26100103	Pro3000 Analog Probe Replacement Tip (two per bag)
26300000	Earpiece for Pro3000/Pro2000 Probe

Fluke Networks IntelliTone™ Pro Toner and Probe

The IntelliTone Probe Digital and Analog Toner finds cables other toners/probes can't. Speeds cable location with advanced sensing modes. New SmartTone™ feature precisely locates individual wire pairs. Digital signal rejects noise and safely tones active networks. Powerful troubleshooting capabilities include datacom link, two line telecom service ID and twisted-pair cable wiremap.

- IntelliTone digital processing eliminates noise and false signals
- New SmartTone™ analog toning precisely isolates individual wire pairs
- Locates cables safely and effectively on active networks

P/N	Description
MT-8200-60A	IntelliTone Pro 200 Kit. Includes IntelliTone Pro 200 Toner and 200 Probe, coax F connector adapter, two RJ11 and two RJ45 patch cables, test leads with alligator clips, lanyards, owners CD and quick start guide and two 9 volt batteries

Continuity Testers

Klein Tools Coax Explorer™ Tester

Tests and verifies coaxial cable continuity. Compact size fits easily into pocket or pouch. Bright LED indicates cable status (good-open-short) and simple push-button operation.

P/N	Description
VDV512-057	Coax Explorer™ Tester

Klein Tools Coax Explorer™ Plus Tester

Quickly tests map/ID up to 4 locations simultaneously. Compact size fits easily into pocket or pouch. Bright LED indicates status and location of cable and push-button for simple operation. Color coded remotes simplify identification. Includes convenient remote holder.

P/N	Description
VDV512-058	Coax Explorer™ Plus Tester

Coax Mappers

JDSU Testifier™ Cable Tester

The Testifier™ cable tester provides full cable test and tone generation in one unit for telecom, datacom, and cable installers and technicians. The easy-to-use Testifier features one-button operation to initiate telco, network, and coax modes for diagnostic tests and results. The main unit includes built-in RJ11 and RJ45 jacks for testing 6-wire and 8-wire twisted pair and F-connector for testing coax.

- Displays tests for shorts, opens, miswires, reversals, and split pairs in wiremap format
- Integrated jacks for telco and network connections, F-connector for coax

P/N	Description
TP350	Testifier Cable Tester with onboard cable test remote. Includes 30.48 cm (1 ft) RJ45 to alligator clips cable, 19 cm (7.5 in) RJ12 to RJ12 cable for no-fault connection to RJ11 or RJ45 jacks, nylon case, and 9-volt battery
KP321	Testifier Cable Tester with onboard cable test remote, 30.48 cm (1 ft) RJ45 to alligator clips cable, 19 cm (7.5 in) RJ12 to RJ12 cable for no-fault connection to RJ11 or RJ45 jacks, set of 20 RJ45 ID-only remotes, and case

JDSU TestifierPRO™ Cable Tester

The TestifierPRO™ Cable Tester provides telecom, datacom, and cable installers and technicians with cable test, length measurement, and hub blink functions in one unit. The easy-to-use TestifierPRO Cable Tester requires one-button operation to initiate telco, network, and coax modes for diagnostic tests and results. The main unit includes built-in RJ11 and RJ45 jacks for testing six-wire and eight-wire twisted pair and F-connector for testing coax.

- Identifies cable termination on active ports by blinking port LED
- Measures cable length using patented cable capacitance method
- Displays single-ended test results in wiremap format for opens, shorts, and split pairs

P/N	Description
TP650	TestifierPRO Cable Tester with cable test remote. Includes 30.48 cm (1 ft) RJ45 to alligator clips cable, two 30.48 cm (1 ft) patch cables with RJ45 connectors, #1 coax cable test remote, and pouch. Requires 9-volt battery (not included)
TP655	TestifierPRO Cable Tester with 8 cable test remotes. Includes 30.48 cm (1 ft) RJ45 to alligator clips cable, two 30.48 cm (1 ft) patch cables with RJ45 connectors, 30.48 cm (1 ft) coax cable, #1 thru #8 coax cable test remotes, and pouch. Requires 9-volt battery (not included)

Klein Tools VDV Scout™ Pro Tester Kit

Simultaneous testing of video and data cables saves time and improves efficiency. Combines multiple VDV test functions and mapping kits. Tests voice (RJ11/12), data (RJ45), and video (F-connector coax) connections. Kit includes VDV Scout™ Pro Tester, 5 location RJ45 Remotes, 5 location F-Connector Remotes, one F to F Barrel Connector.

P/N	Description
VDV501-809	VDV Scout™ Pro Tester Kit

T³ Innovation Coax Clarifier

Dark unpowered coax systems give no clue as to their design, condition or configuration. The new Coax Clarifier by T3 Innovation makes it simple and easy to discern the layout of a coax network, locate faults on individual cable runs, identify remotes through splitters, and determine cable run length. In addition, separate wiremapping sets allow a technician to map out the entire coax system and measure the quality and characterization of the overall network for carrying services, such as high grade video, surveillance data and HD programming.

- Identifies cable faults
- Displays cable run quality
- Detects Coax RF Remotes through splitters
- Locates splitters in the system
- Tests and grades splitter performance

P/N	Description
CC200	Coax Clarifier™ with 2 Coax RF Remotes, RK104, CA004, AD002, AD004 (3), AD005 (4), and CP100
CC210	Coax Clarifier™ with 4 Coax RF Remotes, RK104, CA004, AD002, AD004 (5), AD005 (4), and CP100
CC220	Coax Clarifier™ with 4 Coax RF Remotes, RK112, CA004, AD002, AD004 (5), AD005 (4), and CP100
CC250	Coax Clarifier™ with 4 Coax RF Remotes, TP200 Tone Probe, RK112, CA004, AD004 (5), AD005 (4), and CP200

Wire Mappers/Finders

Greenlee NETcat® NC-100 Micro Digital VDV Wiring Tester

- Tests shielded twisted pair (STP), unshielded twisted pair (UTP) and coaxial cables
- TIA/EIA standard wiring pair verification
- Detects shorts, opens, reversed polarity, crossed and split pairs
- Generates three distinct, selectable digital tone patterns for cable tracing and troubleshooting
- Tracing modes can be adjusted for high performance LAN cables
- Complete set of connector types standard (telephone, LAN and coax)
- Nested remote allows end-to-end testing of all wiring types
- Simple testing of LAN wiring and phone lines

P/N	Description
NC-100	NETcat® Micro Digital Voice, Data and Video Wiring Tester

Greenlee NETcat® Pro2 NC-500 Structured Wiring Troubleshooter

The NETcat® Pro2 is a digital tool for fast, accurate checking of cables, wiring and network service. Operated using a back-lit touch screen display, the NETcat® Pro2 tests wiring continuity and proper pair allocation, measures the length of cables, determines if network service is available and identifies Power over Ethernet (PoE) cables. When used with the NC-510 Accessory Kit, containing seven (7) expansion remote test modules, the NETcat® Pro2 can uniquely test coax or twisted pair jacks from a central location eight (8) at a time. Using a fingertip or the built-in stylus, the screen can be used to control and display a range of tests from fault finding to TDR length measurement. The display can be set to English, Spanish, French or German language.

P/N	Description
NC-500	NETcat Pro2 Digital VDV Wiring Troubleshooter
NC-510	NETcat Pro2 Accessory Kit w/carry case and seven (7) digital remotes
NC-520	NETcat Pro2 Digital VDV Wiring Troubleshooter and Accessory Kit

Greenlee LAN & A/V Cable-Check™

Quickly and easily test RJ45, cable TV "F", RCA, and BNC cabling used in smart home installations.

- Tests RJ45 patch cords and network installations to identify good connections, opens, shorts or cross-connections
- Combination network and coax tester
- Connection type: RJ45 UTP or STP modular plug and cable TV "F" coaxial
- Identifies data and telephone connection schemes
- Maps cable pin-out
- Tests continuity of cable TV cables and installed cable runs
- Max. length: 1,650' (500 m)

P/N	Description
PA1594	LAN & A/V Cable-Check™

Greenlee Wire Finder/Mini Locator

Used to trace energized or degenerated wires in walls and drop ceilings.

- Determines the approximate depth of a wire before digging begins
- Transmitter and receiver are fully-adjustable for accurate locating
- Reliable results on buried cables to depths of 3' and lengths up to 1000'
- Quick-change test leads for use in any industry, even international power outlets
- Voltage protection allows use on live AC circuits
- Automatic shutoff prevents accidental battery discharge

P/N	Description
508S	Wire Finder/Mini Locator